



ICAO ENGINE EXHAUST EMISSIONS DATA SHEET

SUBSONIC ENGINES

ENGINE IDENTIFICATION: GE90-92B BYPASS RATIO: 8.3
 UNIQUE ID NUMBER: 3GE066 PRESSURE RATIO (π_{00}): 40.6
 COMBUSTOR: DAC II
 ENGINE TYPE: TF RATED THRUST (F_{00}) (kN): 426.7

REGULATORY DATA

CHARACTERISTIC VALUE:	HC	CO	NO _x	SMOKE NUMBER
D _p /F ₀₀ (g/kN) or SN	0.6	15.6	74.9	0.6
AS % OF ORIGINAL LIMIT	3.1	13.2	61.8	3.8
AS % OF CAEP/2 LIMIT (NO _x)			77.2	
AS % OF CAEP/4 LIMIT (NO _x)			84.9	
AS % OF CAEP/6 LIMIT (NO _x)			93.4	
AS % OF CAEP/8 LIMIT (NO _x)			105.0	

DATA STATUS

- PRE-REGULATION
 x CERTIFICATION
 - REVISED (SEE REMARKS)

TEST ENGINE STATUS

x NEWLY MANUFACTURED ENGINES
 - DEDICATED ENGINES TO PRODUCTION STANDARD
 - OTHER (SEE REMARKS)

EMISSIONS STATUS

x DATA CORRECTED TO REFERENCE
 (ANNEX 16 VOLUME II)

CURRENT ENGINE STATUS

(IN PRODUCTION, IN SERVICE UNLESS OTHERWISE NOTED)
 x OUT OF PRODUCTION (DATE: -)
 - OUT OF SERVICE (DATE: -)

MEASURED DATA

MODE	POWER SETTING (%F ₀₀)	TIME (minutes)	FUEL FLOW (kg/s)	EMISSIONS INDICES (g/kg)			SMOKE NUMBER
				HC	CO	NO _x	
TAKE-OFF	100	0.7	3.515	0.04	0.15	55.90	2.1
CLIMB OUT	85	2.2	2.844	0.04	0.15	40.51	1.8
APPROACH	30	4.0	0.917	0.07	0.94	17.74	1.8
IDLE	7	26.0	0.304	0.37	12.35	5.92	1.8
LTO TOTAL FUEL (kg) or EMISSIONS (g)			1217	212	6142	30172	-
NUMBER OF ENGINES				3	3	3	3
NUMBER OF TESTS				5	5	5	5
AVERAGE D _p /F ₀₀ (g/kN) or AVERAGE SN (MAX)				0.5	14.4	70.7	
SIGMA (D _p /F ₀₀ in g/kN, or SN)							
RANGE (D _p /F ₀₀ in g/kN, or SN)				0.24-0.81	12.5-16.1	66.8-74.7	0-2.07

ACCESSORY LOADS

POWER EXTRACTION 0 (kW) AT - POWER SETTINGS
 STAGE BLEED 0 (% CORE FLOW) AT - POWER SETTINGS

ATMOSPHERIC CONDITIONS

BAROMETER (kPa)	97.5-98.6
TEMPERATURE (K)	283-301
ABS HUMIDITY (kg/kg)	0.0036-0.0151

FUEL

SPEC	Jet A
H/C	1.91-1.94
AROM (%)	18.1-19.3

MANUFACTURER: General Electric Company
 TEST ORGANIZATION: GE90 Eval Engineering
 TEST LOCATION: Site IIID, PTO, Peebles, Ohio
 TEST DATES: 24/04/1997-19/06/1997

REMARKS

1. GE Report R96AEB292.
2. Engine S/S 900-173, 900-166 & 900-167
3. DAC II combustor

Compliance with Fuel Venting requirements: - ('x' if complies, 'PR' if pre-regulation, '-' if information is not available)